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     (FILE 'HOME' ENTERED AT 14:55:25 ON 23 JUN 2004)

     FILE 'HCAPLUS' ENTERED AT 14:55:30 ON 23 JUN 2004
L1            2 US20030100041/PN

     FILE 'REGISTRY' ENTERED AT 14:55:48 ON 23 JUN 2004

     FILE 'HCAPLUS' ENTERED AT 14:55:51 ON 23 JUN 2004
L2              TRA L1 1- RN :         9 TERMS

     FILE 'REGISTRY' ENTERED AT 14:55:52 ON 23 JUN 2004
L3            9 SEA L2

     FILE 'USPATFULL, USPAT2' ENTERED AT 14:55:58 ON 23 JUN 2004
L4            1 US20030100041/PN

     FILE 'WPIX' ENTERED AT 14:56:09 ON 23 JUN 2004
L5            1 US20030100041/PN

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FILE COVERS 1907 - 23 Jun 2004  VOL 140 ISS 26
FILE LAST UPDATED: 22 Jun 2004  (20040622/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

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L1   ANSWER 1 OF 2  HCAPLUS  COPYRIGHT 2004 ACS on STN
AN   2003:413992  HCAPLUS
DN   138:378287
ED   Entered STN:  30 May 2003
TI   A method for the measurement of the concentration of a material such as dextran
     or raffinose in a solution
IN   Bucke, Christopher; Adlard, Max; Singleton, Victoria; Horn, Jennifer
PA   UK
SO   U.S. Pat. Appl. Publ., 9 pp.
     CODEN: USXXCO
DT   Patent
LA   English
```

IC ICM C12Q001-34
ICS C12N009-24
NCL 435018000; 435200000
CC 80-6 (Organic Analytical Chemistry)
Section cross-reference(s): 9, 11, 17
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003100041	A1	20030529	US 2001-995737	20011129 <--
	GB 2367617	A1	20020410	GB 2000-24299	20001004
	GB 2367617	B2	20040107		
PRAI	US 2001-995737	A	20011129		

AB A method for the measurement of the concentration of a material such as dextran or raffinose in a solution, notably a sugar solution, comprises the step of: i measurement of the optical rotation of a solution sample; ii treatment of the sample with a reactive agent, reactive with the material, sufficient to alter the optical rotation of the sample; iii measurement of the optical rotation of the sample after treatment; and iv calcn. of the concentration of the material by reference to a suitable standard

ST assay
IT Wavelength
(IR; method for measurement of concentration of a material such as dextran or raffinose in a solution)
IT Fruit and vegetable juices
(cane; method for measurement of concentration of a material such as dextran or raffinose in a solution)
IT Samples
(liquid; method for measurement of concentration of a material such as dextran or raffinose in a solution)
IT Concentration (condition)
Materials
Mathematical methods
Molecular weight
Optical activity
Particle size
Polarimetry
Solids
Solutions
Standard substances, analytical
Test kits
(method for measurement of concentration of a material such as dextran or raffinose in a solution)
IT Carbohydrates, analysis
RL: ANT (Analyte); ANST (Analytical study)
(method for measurement of concentration of a material such as dextran or raffinose in a solution)
IT Reagents
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(method for measurement of concentration of a material such as dextran or raffinose in a solution)
IT Diatomite
RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(method for measurement of concentration of a material such as dextran or raffinose in a solution)
IT 57-50-1, Sucrose, analysis 512-69-6, Raffinose 9000-69-5, Pectin 9004-53-9, Dextrin 9004-54-0, Dextran, analysis 9014-63-5, Xylan
RL: ANT (Analyte); ANST (Analytical study)

(method for measurement of concentration of a material such as dextran or raffinose in a solution)
IT 9025-35-8, α-Galactosidase 9025-70-1, Dextranase
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(method for measurement of concentration of a material such as dextran or raffinose in a solution)

L1 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:610548 HCAPLUS
DN 137:126712
ED Entered STN: 16 Aug 2002
TI Polarimetric assay for oligosaccharides or dextran
IN Bucke, Christopher; Adlard, Max; Singleton, Victoria; Horn, Jennifer
PA Optical Activity Limited, UK
SO Brit. UK Pat. Appl., 22 pp.
CODEN: BAXXDU
DT Patent
LA English
IC ICM G01N021-21
CC 44-1 (Industrial Carbohydrates)
Section cross-reference(s): 17, 33, 80
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2367617	A1	20020410	GB 2000-24299	20001004
	GB 2367617	B2	20040107		
	US 2003100041	A1	20030529	US 2001-995737	20011129 <--
PRAI	US 2001-995737	A	20011129		

AB Measurement of the concentration of, e.g., dextran or raffinose contamination in a solution, comprises the step of: (i) measurement of the optical rotation of a solution sample; (ii) treatment of the sample with a reactive agent, reactive with the material, sufficient to alter the optical rotation of the sample; (iii) measurement of the optical rotation of the sample after treatment; and (iv) calcn. of the concentration of the material by reference to a suitable standard Reactive agent is typically dextranase or alpha galactosidase. Utility of method may be in measuring dextran or raffinose concentration in raw cane or beet sugar solns. Also disclosed in the polarimetric anal. of a solution at near IR wavelengths where the sample is first treated with diatomaceous earth prior to optical activity measurement.
ST dextran raffinose polarimetric analysis dextranase galactosidase reaction
IT Optical activity
Polarimetry
(polarimetric assay for oligosaccharides or dextran)
IT Diatomite
RL: RGT (Reagent); RACT (Reactant or reagent)
(polarimetric assay for oligosaccharides or dextran)
IT 57-50-1, Cane sugar, analysis
RL: AMX (Analytical matrix); ANST (Analytical study)
(polarimetric assay for oligosaccharides or dextran)
IT 512-69-6, Raffinose 9004-54-0, Dextran, analysis
RL: ANT (Analyte); ANST (Analytical study)
(polarimetric assay for oligosaccharides or dextran)
IT 9001-34-7, Galactosidase 9025-70-1, Dextranase
RL: RGT (Reagent); RACT (Reactant or reagent)
(polarimetric assay for oligosaccharides or dextran)

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=> b reg
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STRUCTURE FILE UPDATES:   22 JUN 2004  HIGHEST RN 697737-72-7
DICTIONARY FILE UPDATES:  22 JUN 2004  HIGHEST RN 697737-72-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

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Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

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L3   ANSWER 1 OF 9  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   9025-70-1  REGISTRY
CN   Dextranase (9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   α-1,6-Glucan 6-glucanohydrolase
CN   Dextran hydrolase
CN   Dextranase DL 2
CN   Dextrase
CN   DL 2
CN   E.C. 3.2.1.11
CN   endo-Dextranase
CN   Endodextranase
MF   Unspecified
CI   COM, MAN
LC   STN Files:   AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA,
       CAPLUS, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHEM, EMBASE, IFICDB, IFIPAT,
       IFIUDB, IPA, MRCK*, PROMT, TOXCENTER, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
     Other Sources:   EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA  CAplus document type:  Conference; Dissertation; Journal; Patent; Report
RL.P   Roles from patents:  ANST (Analytical study); BIOL (Biological study);
       MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC
       (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses);
       NORL (No role in record)
RLD.P  Roles for non-specific derivatives from patents:  BIOL (Biological
       study); PREP (Preparation); PROC (Process); USES (Uses)
RL.NP  Roles from non-patents:  ANST (Analytical study); BIOL (Biological
       study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP
       (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or
       reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents:  BIOL (Biological
       study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP
       (Properties)
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*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
913 REFERENCES IN FILE CA (1907 TO DATE)
20 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
913 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
RN **9025-35-8** REGISTRY
CN Galactosidase, α- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN α-D-Galactopyranosidase
CN α-D-Galactosidase
CN α-D-Galactoside galactohydrolase
CN α-GAL 600L
CN α-Galactosidase
CN α-Galactosidase A
CN α-Galactoside galactohydrolase
CN Alpha Gal 500
CN E.C. 3.2.1.22
CN Melibiase
CN Validase AGS
DR 9013-52-9, 228870-95-9
MF Unspecified
CI MAN
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CABA, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, IFICDB, IFIPAT, IFIUDB, IPA, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
2946 REFERENCES IN FILE CA (1907 TO DATE)
30 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2952 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 3 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
RN **9014-63-5** REGISTRY
CN Xylan (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Xylans (8CI)
OTHER NAMES:
CN D-Xylan
CN Gums, wood
DR 8050-11-1, 37300-19-9

MF Unspecified
CI PMS, COM, MAN
PCT Manual registration
LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, NAPRALERT, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL, VTB
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
3021 REFERENCES IN FILE CA (1907 TO DATE)
145 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3027 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 4 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
RN **9004-54-0** REGISTRY
CN Dextran (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Dextrans (8CI)
OTHER NAMES:
CN α-Dextran
CN CDC-H
CN DEX 500
CN Dextran 1.5
CN Dextran 10
CN Dextran 1000
CN Dextran 110
CN Dextran 15
CN Dextran 150
CN Dextran 2000
CN Dextran 250
CN Dextran 3000
CN Dextran 40
CN Dextran 45
CN Dextran 500
CN Dextran 60
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CN Dextran B1355
CN Dextran D 10
CN Dextran PL 1S

CN Dextran PT 25
CN Dextran PVD
CN Dextran RMI
CN Dextran T 10
CN Dextran T 110
CN Dextran T 150
CN Dextran T 20
CN Dextran T 2000
CN Dextran T 500
CN Dextran T 70
CN Dextranen
CN Dextraven
CN Eudextran
CN Expandex
CN Gentran
CN Hemodex
CN Hyscon
CN Hyskon
CN Infucoll
CN Intrader
CN Intradex
CN LMD
CN LMWD
CN Longasteril 70
CN LU 122
CN LVD
CN Macrodex
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
DR 12626-85-6, 9013-80-3, 9044-66-0, 11104-36-2, 11121-03-2, 37224-17-2, 86280-85-5
MF Unspecified
CI PMS, COM, MAN
PCT Manual registration, Polyother, Polyother only
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IMSCOSEARCH, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PHAR, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, VTB
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RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
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PRP (Properties); RACT (Reactant or reagent); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
14366 REFERENCES IN FILE CA (1907 TO DATE)
2430 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
14406 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 5 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
RN **9004-53-9** REGISTRY
CN Dextrin (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Dextrins (8CI)
OTHER NAMES:
CN 102D
CN 102K
CN 1752S
CN 30AN
CN 37LAC19
CN 955SR
CN Amaizo 1706
CN Amaizo 1752S
CN Amycol 1
CN Amycol 10
CN Amycol 6L
CN Aquaflake 31
CN Arabix 6
CN Arabix 7
CN Avedex 35
CN Avedex 58MD14
CN Avedex 58MD14C
CN Avedex W 15
CN Avedex W 90
CN Bindex 2
CN BLD
CN BLD 8
CN British gum
CN British gum APA
CN C 23
CN C 23 (polysaccharide)
CN C*DrySet
CN Canary S 8032
CN Corn dextrin
CN CPC 8071
CN Cream Dextrin 15
CN Crystal Gum
CN Crystal Tex 627
CN D 3100
CN D 3100 (gum)
CN D 400E
CN Dextrid
CN Dextrin 10
CN Dextrin 101
CN Dextrin 102N
CN Dextrin 102S
CN Dextrin 1104
CN Dextrin 12
CN Dextrin 1719
CN Dextrin 20
CN Dextrin 3
CN Dextrin ND-S

CN Dextrin ND-SN
CN Dextrina Bianca
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DR 9072-45-1, 37265-05-7, 37265-06-8, 152232-07-0, 100041-56-3, 199015-70-8, 256933-14-9
MF Unspecified
CI PMS, COM, MAN
PCT Manual registration, Polyother, Polyother only
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PHAR, PIRA, PROMT, PS, RTECS*, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
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DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
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*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
7704 REFERENCES IN FILE CA (1907 TO DATE)
395 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
7716 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 6 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
RN **9001-34-7** REGISTRY
CN Galactosidase (9CI) (CA INDEX NAME)
DR 9025-36-9
MF Unspecified
CI MAN
LC STN Files: ADISNEWS, AGRICOLA, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CEN, CHEMLIST, CIN, CSNB, EMBASE, MEDLINE, NIOSHTIC, PROMT, TOXCENTER, USPAT2, USPATFULL
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological

study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); PROC (Process); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
364 REFERENCES IN FILE CA (1907 TO DATE)
36 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
366 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 7 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
RN **9000-69-5** REGISTRY
CN Pectin (9CI) (CA INDEX NAME)
OTHER NAMES:
CN AF 701
CN Beta-Pectin
CN Cesapectin
CN Classic AF 501
CN Classic AM 201
CN Colyer pectin
CN D-D Slowset
CN Genu Beta Pectin
CN Genu JMJ 100
CN Genu Pectin L 200
CN Genu Pectin LM 101AS
CN Genu Pectin LM 104AS
CN Genu Pectin LM 104AS-FS
CN Genu Pectin LM 105AS
CN Genu Pectin LM 105S
CN Genu Pectin LM 18CG-Z
CN Genu Pectin LM 85AS
CN Genu Pectin USP-H
CN Genu Pectin X 0905
CN Genu Pectin YM 100
CN Genu Pectin YM 150J
CN H&F Pectin Classic AF 701
CN LM 104AS-FS
CN LM 12CG-Z
CN LM-SN 325
CN LMNA/P 3450NA95
CN Marpee NL
CN Marpee OM
CN Methoxypectin
CN Methyl pectin
CN Methyl pectinate
CN MexPec 1400
CN Mexpectin XSS 100
CN OF 305
CN Pectin 1694
CN Pectin JM 150JN
CN Pectinate
CN Pectinic acid
CN Pectins
CN Red Ribbon 3G
CN Slendid 200
CN Slendid L 200
CN SM 478
CN Splendid
CN TIC Pretested Pre-hydrated 1694 Powder

CN Unipectin
CN Unipectine 150RS150C
CN Unipectine 3450NA95
CN Unipectine AMP 285
CN Unipectine AYD 358
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
DR 9046-41-7, 9047-18-1
MF Unspecified
CI PMS, COM, MAN
PCT Manual registration, Polyother, Polyother only
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGU, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
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DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
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*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
12453 REFERENCES IN FILE CA (1907 TO DATE)
482 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
12475 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 8 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
RN **512-69-6** REGISTRY
CN α-D-Glucopyranoside, β-D-fructofuranosyl O-α-D-galactopyranosyl-(1→6)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Raffinose (8CI)
OTHER NAMES:
CN D-(+)-Raffinose
CN D-Raffinose
CN Gossypose
CN Melitose
CN Melitriose
CN NSC 170228
CN NSC 2025
FS STEREOSEARCH
DR 127230-13-1
MF C18 H32 O16

CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, NAPRALERT, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
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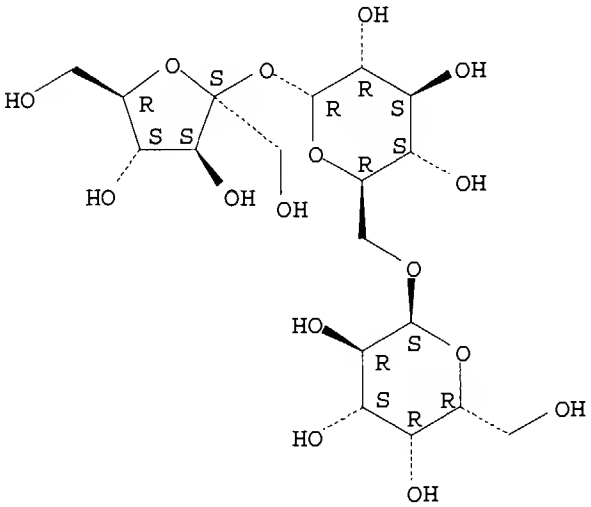
DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

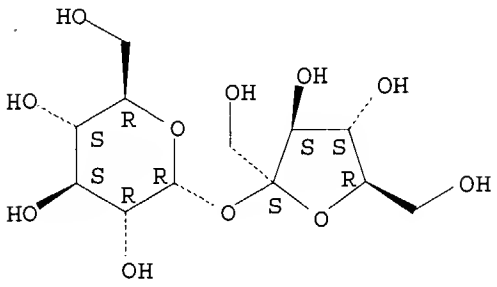
5206 REFERENCES IN FILE CA (1907 TO DATE)
107 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
5212 REFERENCES IN FILE CAPLUS (1907 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L3 ANSWER 9 OF 9 REGISTRY COPYRIGHT 2004 ACS on STN
RN **57-50-1** REGISTRY

CN α-D-Glucopyranoside, β-D-fructofuranosyl (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Sucrose (8CI)
OTHER NAMES:
CN (+)-Sucrose
CN β-D-Fructofuranosyl α-D-glucopyranoside
CN Amerfond
CN Beet sugar
CN Cane sugar
CN Confectioner's sugar
CN D-(+)-Saccharose
CN D-(+)-Sucrose
CN D-Sucrose
CN GNE 410
CN Granulated sugar
CN Manalox AS
CN Microse
CN NSC 406942
CN Rock candy
CN Saccharose
CN Saccharum
CN Sucralox
CN Sugar
CN White sugar
FS STEREOSEARCH
DR 635681-90-2, 12040-73-2, 8027-47-2, 8030-20-4, 131932-12-2, 64533-66-0, 104242-10-6, 50857-68-6, 51909-69-4, 65545-99-5, 75398-84-4, 76056-38-7, 78654-77-0, 146054-35-5, 146187-04-4, 151756-02-4, 80165-03-3, 85456-51-5, 86101-30-6, 87430-66-8, 92004-84-7, 29253-78-9, 29764-06-5, 30027-72-6, 47167-52-2, 47185-09-1, 47257-91-0, 100405-08-1, 220376-22-7
MF C12 H22 O11
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS, RTECS*, SPECINFO, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, VETU, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process);

PRP (Properties); RACT (Reactant or reagent); USES (Uses)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

65430 REFERENCES IN FILE CA (1907 TO DATE)
3849 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
65528 REFERENCES IN FILE CAPLUS (1907 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> b uspatall
FILE 'USPATFULL' ENTERED AT 14:57:14 ON 23 JUN 2004
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FILE 'USPAT2' ENTERED AT 14:57:14 ON 23 JUN 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

=> d bib abs ind l4

L4 ANSWER 1 OF 1 USPATFULL on STN
AN 2003:146295 USPATFULL
TI Assay method
IN Bucke, Christopher, London, UNITED KINGDOM
Adlard, Max, London, UNITED KINGDOM
Singleton, Victoria, Ramsey, UNITED KINGDOM
Horn, Jennifer, Ramsey, UNITED KINGDOM
PI US 2003100041 A1 20030529 <--
AI US 2001-995737 A1 20011129 (9)
DT Utility
FS APPLICATION
LREP DORSEY & WHITNET, LLP, Suite 300-South, 1001 Pennsylvania Avenue, N.W., Washington, DC, 20004
CLMN Number of Claims: 12
ECL Exemplary Claim: 1
DRWN 3 Drawing Page(s)
LN.CNT 530
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A method for the measurement of the concentration of a material such as dextran or raffinose in a solution, notably a sugar solution, comprises the step of:

i measurement of the optical rotation of a solution sample;

ii treatment of the sample with a reactive agent, reactive with the material, sufficient to alter the optical rotation of the sample;

iii measurement of the optical rotation of the sample after treatment; and

iv calculation of the concentration of the material by reference to a suitable standard.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
INCL INCLM: 435/018.000
INCLS: 435/200.000
NCL NCLM: 435/018.000
NCLS: 435/200.000
IC [7]
ICM: C12Q001-34
ICS: C12N009-24

CHEMICAL ABSTRACTS INDEXING COPYRIGHT 2004 ACS on STN

		PATENT	KIND	DATE
OS	CA 137:126712	GB 2367617	A1	20020410
	CA 138:378287 *	US 20030100041	A1	20030529

* CA Indexing for this record included
CC 80-6 (Organic Analytical Chemistry)
Section cross-reference(s): 9, 11, 17
ST assay
IT Wavelength
(IR; method for measurement of concentration of a material such as dextran or raffinose in a solution)
IT Fruit and vegetable juices
(cane; method for measurement of concentration of a material such as dextran or raffinose in a solution)
IT Samples
(liquid; method for measurement of concentration of a material such as dextran or raffinose in a solution)
IT Concentration (condition)
Materials
Mathematical methods
Molecular weight
Optical activity
Particle size
Polarimetry
Solids
Solutions
Standard substances, analytical
Test kits
(method for measurement of concentration of a material such as dextran or raffinose in a solution)
IT Carbohydrates, analysis
(method for measurement of concentration of a material such as dextran or raffinose in a solution)
IT Reagents
(method for measurement of concentration of a material such as dextran or raffinose in a solution)
IT Diatomite
(method for measurement of concentration of a material such as dextran or raffinose in a solution)
IT 57-50-1, Sucrose, analysis 512-69-6, Raffinose 9000-69-5, Pectin

9004-53-9, Dextrin 9004-54-0, Dextran, analysis 9014-63-5, Xylan
(method for measurement of concentration of a material such as dextran or raffinose in a solution)
IT 9025-35-8, α-Galactosidase 9025-70-1, Dextranase
(method for measurement of concentration of a material such as dextran or raffinose in a solution)

=> b wpix
FILE 'WPIX' ENTERED AT 14:57:27 ON 23 JUN 2004
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FILE LAST UPDATED: 21 JUN 2004 <20040621/UP>
MOST RECENT DERWENT UPDATE: 200439 <200439/DW>
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

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>>> THE DISPLAY LAYOUT HAS BEEN CHANGED TO ACCOMODATE THE NEW FORMAT GERMAN PATENT APPLICATION AND PUBLICATION NUMBERS. SEE ALSO:
http://www.stn-international.de/archive/stnews/news0104.pdf <<<

=> d all l5

L5 ANSWER 1 OF 1 WPIX COPYRIGHT 2004 THOMSON DERWENT on STN
AN 2002-429016 [46] WPIX
DNN N2002-337414 DNC C2002-121795
TI Concentration measurement of material such as dextran in sugar cane industry, involves measuring optical rotation of sample before and after treating with reactive agent and calculating concentration using reference.
DC D16 D17 J04 S03
IN ADLARD, M; BUCKE, C; HORN, J; SINGLETON, V
PA (OPTI-N) OPTICAL ACTIVITY LTD; (ADLA-I) ADLARD M; (BUCK-I) BUCKE C; (HORN-I) HORN J; (SING-I) SINGLETON V
CYC 2
PI GB 2367617 A 20020410 (200246)* 22 G01N021-21
US 2003100041 A1 20030529 (200344)# C12Q001-34 <--
GB 2367617 B 20040107 (200404) G01N021-21

ADT GB 2367617 A GB 2000-24299 20001004; US 2003100041 A1 US 2001-995737 20011129; GB 2367617 B GB 2000-24299 20001004
PRAI GB 2000-24299 20001004; US 2001-995737 20011129
IC ICM C12Q001-34; G01N021-21
ICS C12N009-24
AB GB 2367617 A UPAB: 20020722
NOVELTY - Measurement of the concentration of a material in a solution comprises:
(i) measuring the optical rotation of a solution sample;
(ii) treating the sample with a reactive agent which is reactive with the material, to alter the optical rotation of the sample;
(iii) measuring the optical rotation of the sample after treatment; and
(iv) calculating the concentration of the material by reference to a suitable standard.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
(a) dextranase or alpha -galactosidase in the context of a solid support;
(b) a kit for assay of the concentration of material in solution; and
(c) a method for polarimetric analysis of a solution.
USE - For measuring the concentration of a material such as dextran in the sugar cane industry, and raffinose in the sugar beet industry.
ADVANTAGE - The concentration of sucrose is determined accurately, by determining the concentration of contaminant such as dextran. The use of lead acetate which produces environmental hazards is prevented. The concentration of the material is determined safely and economically. Accurate and sensitive detection of the quantity of optically active material such as dextran, is possible.
Dwg.0/3
FS CPI EPI
FA AB
MC CPI: D05-C08; D05-H09; D06-B; J04-C02; J04-C03
EPI: S03-E04F1; S03-E14A

=> b home
FILE 'HOME' ENTERED AT 14:57:33 ON 23 JUN 2004

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